### Cessna 172M Checklist

#### AIRCRAFT ACCEPTANCE
- **Challenge**
  - Control Lock
  - Master Switch
  - Flaps
  - Fuel Quantity
  - Avionics Master Switch
  - Master Switch
  - Alternate Static Air
  - Maintenance Status / Tachometer
  - Hobbs
  - AR(R)OW
- **Response**
  - REMOVE
  - ON
  - DOWN
  - CHECKED
  - OFF
  - OFF
  - OFF
  - CHECKED
  - CHECKED
  - RECORDER

#### BEFORE STARTING ENGINE
- **Challenge**
  - Preflight Inspection
  - Doors
  - Passenger Briefing
  - Seat Belts / Harnesses
  - Circuit Breakers
  - Fuel Selector
  - Electrical Equipment
- **Response**
  - COMPLETE
  - CLOSED AND LATCHED
  - COMPLETE
  - ON
  - BOTH
  - OFF

#### STARTING ENGINE
- **Challenge**
  - Master Switch
  - Beacon
  - Mixture
  - Carb Heat
  - Throttle
  - Primer
  - Propeller Area
  - Ignition Switch
  - Throttle
  - Oil Pressure
  - Avionics
  - Flaps
  - Mixture
- **Response**
  - ON
  - ON
  - RICH
  - COLD
  - OPEN 1/8 INCH
  - IF REQUIRED 2-4 PUMPS
  - CLEAR
  - START
  - 1000 RPM
  - CHECKED
  - ON
  - UP
  - AS REQUIRED

#### TAXI
- **Challenge**
  - Brakes / Steering
  - Instruments
- **Response**
  - CHECKED
  - CHECKED

#### BEFORE TAKEOFF
- **Challenge**
  - Parking Brake
  - Doors & Windows
  - Flight Controls & Trim
  - Fuel Quantity
  - Fuel Selector
  - Mixture
  - Throttle
  - Magneto (Max. 125 RPM / 50 Difference)
  - Carb Heat
  - Suction Gauge
  - Engine Instruments & Ammeter
  - Throttle
  - Mixture
  - Flaps
  - Flight Instruments
  - Departure Briefing / Avionics
- **Response**
  - SET
  - CHECKED
  - CHECKED
  - CHECKED
  - BOTH
  - RICH
  - 1700 RPM
  - CHECKED
  - CHECKED
  - IDLE / 1000 RPM
  - AS REQUIRED
  - SET
  - SET
  - COMPLETE / SET

#### LINE UP
- **Challenge**
  - Transponder
  - Exterior Lights
  - Pilot Heat
  - Carb Heat
  - Engine Gauges
  - Airspeed
- **Response**
  - ALT
  - ON
  - AS REQUIRED
  - COLD
  - CHECKED
  - V, (78) until 1000' then 80-90 KIAS

#### CLIMB
- **Challenge**
  - Flaps
  - Mixture
  - Engine Gauges
  - Airspeed
- **Response**
  - AS REQUIRED
  - AS REQUIRED
  - CHECKED
  - COMPLETE

#### CRUISE
- **Challenge**
  - Power
  - Mixture
  - Landing Light
  - Heading Indicator / Compass
- **Response**
  - SET
  - AS REQUIRED
  - OFF
  - CHECKED

#### DESCENT
- **Challenge**
  - Weather
  - Fuel Selector
  - Carb Heat
  - Landing Light
  - Approach Briefing
- **Response**
  - CHECKED
  - BOTH
  - AS REQUIRED
  - AS REQUIRED
  - COMPLETE

#### BEFORE LANDING
- **Challenge**
  - Passenger Briefing
  - Seat Belts / Harnesses
  - Fuel Selector
  - Mixture
  - Carb Heat
  - Flaps
  - Landing Light
- **Response**
  - COMPLETE
  - ON
  - BOTH
  - AS REQUIRED
  - ON
  - SET
  - ON

#### AFTER LANDING
- **Challenge**
  - Landing Light / Anti-Collision Light
  - Trim
  - Mixture
  - Flaps
  - Carb Heat
  - Pit Heat
- **Response**
  - OFF
  - AS REQUIRED
  - UP
  - OFF
  - OFF

#### SECURING
- **Challenge**
  - Brakes
  - Avionics
  - Magneto
  - Mixture
  - Master Switch
  - Fuel Selector
  - Hobbs
  - Chocks / Control Lock & Tie Down
- **Response**
  - HOLD
  - OFF
  - GROUND CHECK
  - IDLE CUT-OFF
  - OFF & OUT
  - OFF
  - LEFT or RIGHT
  - RECORD
  - IN & SECURE
### Challenge

#### ENGINE FAILURE DURING TAKEOFF ROLL
- **Throttle**: IDLE
- **Brakes**: APPLY
- **Wing Flaps**: RETRACT
- **Mixture**: IDLE CUT-OFF
- **Fuel Selector**: OFF
- **Magneto Switch**: OFF
- **Master Switch**: OFF

**ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF**
- **Airspeed**: (flaps up) 65 KIAS
- **Fuel Selector**: IDLE CUT-OFF
- **Magneto Switch**: OFF
- **Wing Flaps**: AS REQUIRED
- **Master Switch**: OFF

#### ENGINE FAILURE IN FLIGHT
- **Airspeed**: 65 KIAS
- **Trim for Best Glide**: COMPLETE
- **Fuel Selector**: BOTH
- **Carb Heat**: IN/LOCKED
- **Master Switch**: ON / BOTH

**IF NO RESTART OR AN OFF AIRPORT LANDING IS NECESSARY:**
- **Squawk Code**: 7700 (121.5)
- **Mix, Mags, Fuel Selector**: OFF
- **Flaps**: AS REQUIRED
- **Master Switch**: OFF
- **Seats / Seat Belts**: SECURE
- **Sharp Objects**: STOW
- **Doors**: AJAR

#### ENGINE FIRE DURING START UP
- **Cranking**: CONTINUE

**IF ENGINE STARTS:**
- **Throttle**: 1700 RPM
- **Engine**: SHUTDOWN
- **Engine**: INSPECT

**IF ENGINE FAILS TO START:**
- **Throttle**: FULL OPEN
- **Mixture**: IDLE CUT-OFF

**Cranking**: CONTINUE
- **Fuel Selector**: OFF
- **Fire Extinguisher**: OBTAIN / ARM
- **Engine**: SECURE
- **Magneto Switch**: OFF
- **Master Switch**: OFF
- **Engine**: INSPECT

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### Challenge

#### ENGINE FIRE IN FLIGHT
- **Mixture**: IDLE CUT-OFF
- **Fuel Selector**: OFF
- **Vents Heat / Air**: CLOSED (except wing root vents)
- **Airspeed**: 100 KIAS
- **If fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture.**
- **Forced Landing**: EXECUTE
- **SEE ENGINE FAILURE IN FLIGHT: NO RESTART CHECKLIST**

#### ELECTRICAL FIRE IN FLIGHT
- **Master Switch**: ON
- **Circuit Breakers**: check for faulty circuit, do not reset
- **Radio / Electrical Switches**: ON
- **Vents Heat / Air**: OPEN
- **When it is ascertained that fire is completely extinguished.**

#### LANDING WITH A FLAT MAIN TIRE
- **Wing Flaps**: AS DESIRED
- **Approach**: NORMAL
- **Touchdown**: GOOD TIRE FIRST
- **Hold airplane off flat tire as long as possible with aileron control.**

#### AMMETER SHOWS EXCESSIVE RATE OF CHARGE
- **Master**: OFF
- **Alternator Circuit Breaker**: PULL
- **Non-Essential Electrical Equip.**: OFF
- **Flight**: LAND AS SOON AS PRACTICAL

#### ALT INOP LIGHT ILLUMINATES IN FLIGHT
- **Radios**: OFF
- **Alternator Circuit Breaker**: CHECK IN
- **Master Switch**: OFF (both sides)
- **Alt Switch**: ON
- **Alt INOP Light**: CHECK OFF
- **Radios**: ON

**IF ALT INOP LIGHT ILLUMINATES AGAIN**
- **Alternator**: OFF
- **Non-Essential Radio / Electrical Equip.**: OFF
- **Flight**: LAND AS SOON AS PRACTICAL

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